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7. Control system according to ^{claim 1} ~~any of the foregoing claims~~, characterized in that the connecting line (22) between the sensor (2) and the interface (21) is electromagnetically shielded.

8. Control system according to ^{claim 1} ~~any of the foregoing claims~~, characterized in that the connecting line (11) to the motor control apparatus (1) is a system bus.

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9. Control system according to ^{claim 8} ~~any of the foregoing claims~~, characterized in that a plurality of sensors ^{are} ~~is~~ connected through the system bus to the control apparatus (1).

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10. Control system according to ^{claim 1} ~~any of the foregoing claims~~, characterized in that the evaluating unit (211) has a microprocessor.

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11. Control system according to ^{claim 10} ~~the foregoing claim~~, characterized in that the microprocessor can be tuned with software to the individual sensor (2).

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12. Control system according to ^{claim 1} ~~any of the foregoing claims~~, characterized in that a heater of the sensor is controllable by the evaluating unit (211).

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